SEVENTH APPROXIMATION
DATA FORM FOR CONVENTIONAL ASSESSMENT UNITS (Version 6, 9 April 2003)

IDENTIFICATION INFORMATION

Assessment Geologist:	S.B. Gaswirth	Date:	31-Aug-10
Region:	North America	Number:	5
Province:	Anadarko Basin	Number:	5058
Total Petroleum System:	Woodford Composite	Number:	505801
Assessment Unit:	Hunton Group	Number:	50580104
Based on Data as of:			
Notes from Assessor:	Ancillary data modified with Woodford AU (H2S) and Simpson		

CHARACTERISTICS OF ASSESSMENT UNIT

Oil (<20,000 cfg/bo overall) **or** Gas (≥20,000 cfg/bo overall): Oil

What is the minimum accumulation size? 0.5 mmboe grown
(the smallest accumulation that has potential to be added to reserves)

No. of discovered accumulations exceeding minimum size: Oil: 6 Gas: 18
Established (>13 accums.) X Frontier (1-13 accums.) Hypothetical (no accums.)

Median size (grown) of discovered oil accumulations (mmbo):
1st 3rd 1.66 2nd 3rd 2.1 3rd 3rd

Median size (grown) of discovered gas accumulations (bcfg):
1st 3rd 99.3 2nd 3rd 119.9 3rd 3rd 22.2

Assessment-Unit Probabilities:

Attribute	Probability of occurrence (0-1.0)
1. **CHARGE:** Adequate petroleum charge for an undiscovered accum. ≥ minimum size:	1.0
2. **ROCKS:** Adequate reservoirs, traps, and seals for an undiscovered accum. ≥ minimum size:	1.0
3. **TIMING OF GEOLOGIC EVENTS:** Favorable timing for an undiscovered accum. ≥ minimum siz	1.0

Assessment-Unit GEOLOGIC Probability (Product of 1, 2, and 3): 1.0

UNDISCOVERED ACCUMULATIONS

No. of Undiscovered Accumulations: How many undiscovered accums. exist that are ≥ min. size?:
(uncertainty of fixed but unknown values)

Oil Accumulations:	minimum (>0)	1	mode	3	maximum	15
Gas Accumulations:	minimum (>0)	1	mode	10	maximum	50

Sizes of Undiscovered Accumulations: What are the sizes (**grown**) of the above accums?:
(variations in the sizes of undiscovered accumulations)

Oil in Oil Accumulations (mmbo):	minimum	0.5	median	1	maximum	20
Gas in Gas Accumulations (bcfg):	minimum	3	median	10	maximum	200

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AVERAGE RATIOS FOR UNDISCOVERED ACCUMS., TO ASSESS COPRODUCTS

(uncertainty of fixed but unknown values)

Oil Accumulations:	minimum	mode	maximum
Gas/oil ratio (cfg/bo)	2000	4000	6000
NGL/gas ratio (bngl/mmcfg)	15	30	45

Gas Accumulations:	minimum	mode	maximum
Liquids/gas ratio (bliq/mmcfg)	3	6	9
Oil/gas ratio (bo/mmcfg)			

SELECTED ANCILLARY DATA FOR UNDISCOVERED ACCUMULATIONS

(variations in the properties of undiscovered accumulations)

Oil Accumulations:	minimum	mode	maximum
API gravity (degrees)	30	40	55
Sulfur content of oil (%)	0.01	0.1	0.3
Depth (m) of water (if applicable)			

	minimum	F75	mode	F25	maximum
Drilling Depth (m)	1500		2500		3700

Gas Accumulations:	minimum	mode	maximum
Inert gas content (%)	0.5	2	5
CO_2 content (%)	0.01	2	8
Hydrogen-sulfide content (%)	0	0	0.1
Depth (m) of water (if applicable)			

	minimum	F75	mode	F25	maximum
Drilling Depth (m)	1500		4800		8000

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ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO STATES

Surface Allocations (uncertainty of a fixed value)

1. Kansas represents 1.27 area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity		1.27	
Gas in Gas Accumulations: Volume % in entity		1.27	

2. Oklahoma represents 77.52 area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity		77.52	
Gas in Gas Accumulations: Volume % in entity		77.52	

3. Texas represents 21.21 area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity		21.21	
Gas in Gas Accumulations: Volume % in entity		21.21	

4. _____ represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity			
Gas in Gas Accumulations: Volume % in entity			

5. _____ represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity			
Gas in Gas Accumulations: Volume % in entity			

6. _____ represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity			
Gas in Gas Accumulations: Volume % in entity			

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7. _____ represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity			
Gas in Gas Accumulations: Volume % in entity			

8. _____ represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity			
Gas in Gas Accumulations: Volume % in entity			

9. _____ represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity			
Gas in Gas Accumulations: Volume % in entity			

10. _____ represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity			
Gas in Gas Accumulations: Volume % in entity			

11. _____ represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity			
Gas in Gas Accumulations: Volume % in entity			

12. _____ represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity			
Gas in Gas Accumulations: Volume % in entity			

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ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO LAND ENTITIES

Surface Allocations (uncertainty of a fixed value)

1. Federal Lands		represents 0.78 area % of the AU		
Oil in Oil Accumulations:	minimum	mode	maximum	
Volume % in entity		0.78		
Gas in Gas Accumulations:				
Volume % in entity		0.78		
2. Private Lands		represents 97.64 area % of the AU		
Oil in Oil Accumulations:	minimum	mode	maximum	
Volume % in entity		97.64		
Gas in Gas Accumulations:				
Volume % in entity		97.64		
3. Tribal Lands		represents 0.01 area % of the AU		
Oil in Oil Accumulations:	minimum	mode	maximum	
Volume % in entity		0.01		
Gas in Gas Accumulations:				
Volume % in entity		0.01		
4. Other Lands		represents area % of the AU		
Oil in Oil Accumulations:	minimum	mode	maximum	
Volume % in entity				
Gas in Gas Accumulations:				
Volume % in entity				
5. OK State Lands		represents 1.54 area % of the AU		
Oil in Oil Accumulations:	minimum	mode	maximum	
Volume % in entity		1.54		
Gas in Gas Accumulations:				
Volume % in entity		1.54		
6. TX State Lands		represents 0.03 area % of the AU		
Oil in Oil Accumulations:	minimum	mode	maximum	
Volume % in entity		0.03		
Gas in Gas Accumulations:				
Volume % in entity		0.03		

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7. _____ represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity			
Gas in Gas Accumulations: Volume % in entity			

8. _____ represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity			
Gas in Gas Accumulations: Volume % in entity			

9. _____ represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity			
Gas in Gas Accumulations: Volume % in entity			

10. _____ represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity			
Gas in Gas Accumulations: Volume % in entity			

11. _____ represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity			
Gas in Gas Accumulations: Volume % in entity			

12. _____ represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity			
Gas in Gas Accumulations: Volume % in entity			

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ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO FEDERAL LAND SUBDIVISIONS
Surface Allocations (uncertainty of a fixed value)

1. Bureau of Land Management (BLM) represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity			
Gas in Gas Accumulations: Volume % in entity			

2. BLM Wilderness Areas (BLMW) represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity			
Gas in Gas Accumulations: Volume % in entity			

3. BLM Roadless Areas (BLMR) represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity			
Gas in Gas Accumulations: Volume % in entity			

4. National Park Service (NPS) represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity			
Gas in Gas Accumulations: Volume % in entity			

5. NPS Wilderness Areas (NPSW) represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity			
Gas in Gas Accumulations: Volume % in entity			

6. NPS Protected Withdrawals (NPSP) represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity			
Gas in Gas Accumulations: Volume % in entity			

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7. US Forest Service (FS) represents 0.17 area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations:			
Volume % in entity		0.17	
Gas in Gas Accumulations:			
Volume % in entity		0.17	

8. USFS Wilderness Areas (FSW) represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations:			
Volume % in entity			
Gas in Gas Accumulations:			
Volume % in entity			

9. USFS Roadless Areas (FSR) represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations:			
Volume % in entity			
Gas in Gas Accumulations:			
Volume % in entity			

10. USFS Protected Withdrawals (FSP) represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations:			
Volume % in entity			
Gas in Gas Accumulations:			
Volume % in entity			

11. US Fish and Wildlife Service (FWS) represents 0.13 area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations:			
Volume % in entity		0.13	
Gas in Gas Accumulations:			
Volume % in entity		0.13	

12. USFWS Wilderness Areas (FWSW) represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations:			
Volume % in entity			
Gas in Gas Accumulations:			
Volume % in entity			

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13. USFWS Protected Withdrawals (FWSP) represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity			
Gas in Gas Accumulations: Volume % in entity			

14. Wilderness Study Areas (WS) represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity			
Gas in Gas Accumulations: Volume % in entity			

15. Department of Energy (DOE) represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity			
Gas in Gas Accumulations: Volume % in entity			

16. Department of Defense (DOD) represents 0.28 area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity		0.29	
Gas in Gas Accumulations: Volume % in entity		0.29	

17. Bureau of Reclamation (BOR) represents 0.13 area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity		0.13	
Gas in Gas Accumulations: Volume % in entity		0.13	

18. Tennessee Valley Authority (TVA) represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity			
Gas in Gas Accumulations: Volume % in entity			

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19. Other Federal represents 0.06 area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations:			
Volume % in entity		0.06	
Gas in Gas Accumulations:			
Volume % in entity		0.06	

20. _____ represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations:			
Volume % in entity			
Gas in Gas Accumulations:			
Volume % in entity			

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ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO ECOSYSTEMS
Surface Allocations (uncertainty of a fixed value)

1.	Cross Timbers and Prairie (CRTP)	represents	0.20	area % of the AU	
Oil in Oil Accumulations:	minimum		mode		maximum
Volume % in entity			0.20		
Gas in Gas Accumulations:					
Volume % in entity			0.20		
2.	Redbed Plains (RBPL)	represents	33.37	area % of the AU	
Oil in Oil Accumulations:	minimum		mode		maximum
Volume % in entity			33.37		
Gas in Gas Accumulations:					
Volume % in entity			33.37		
3.	South-Central Great Plains (SCGP)	represents	25.54	area % of the AU	
Oil in Oil Accumulations:	minimum		mode		maximum
Volume % in entity			25.54		
Gas in Gas Accumulations:					
Volume % in entity			25.54		
4.	Southern High Plains (SHPL)	represents	21.11	area % of the AU	
Oil in Oil Accumulations:	minimum		mode		maximum
Volume % in entity			21.11		
Gas in Gas Accumulations:					
Volume % in entity			21.11		
5.	Texas High Plains (TXHP)	represents	19.78	area % of the AU	
Oil in Oil Accumulations:	minimum		mode		maximum
Volume % in entity			19.78		
Gas in Gas Accumulations:					
Volume % in entity			19.78		
6.		represents		area % of the AU	
Oil in Oil Accumulations:	minimum		mode		maximum
Volume % in entity					
Gas in Gas Accumulations:					
Volume % in entity					

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7. _____ represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity			
Gas in Gas Accumulations: Volume % in entity			

8. _____ represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity			
Gas in Gas Accumulations: Volume % in entity			

9. _____ represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity			
Gas in Gas Accumulations: Volume % in entity			

10. _____ represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity			
Gas in Gas Accumulations: Volume % in entity			

11. _____ represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity			
Gas in Gas Accumulations: Volume % in entity			

12. _____ represents _____ area % of the AU

	minimum	mode	maximum
Oil in Oil Accumulations: Volume % in entity			
Gas in Gas Accumulations: Volume % in entity			